

PATENT CLAIMS

1. Multiple layer biaxially oriented film of a base layer and at least one covering layer characterised in that the covering layer contains at least one polymer of at least one aliphatic hydroxycarboxylic acid and 1.5 to 10% by weight of a glycerine fatty acid ester and >0 to 0.5% by weight of mica, based on the weight of the covering layer respectively.
2. Film according to claim 1 characterised in that the content of glycerine fatty acid ester is 2 to 8% by weight, based on the weight of the covering layer.
3. Film according to claim 1 or 2 characterised in that the glycerine fatty acid ester is glycerine monostearate.
4. Film according to one of claim 1 to 3 characterised in that the mica has a particle size of 4-12  $\mu\text{m}$ .
5. Film according to one of claims 1 to 4 characterised in that the mica has a form factor (aspect ratio) of 5 to 50.
6. Film according to one of claims 1 to 5 characterised in that the covering layer contains 0.05-0.25% by weight.
7. Film according to one of claims 1 to 6 characterised in that the covering layer additionally contains calcium silicate (wollastonite) or kaolin.
8. Films according to claim 7 characterised in that calcium silicate (wollastonite) and/or kaolin are contained in a quantity of 0.5 to 0.3% by weight respectively, the total quantity of antiblocking

agent content not exceeding 0.5% by weight, based on the covering layer.

9. Films according to one of claims 1 to 8 characterised in that the covering layer contains 70 to <98% by weight of a polymer of aliphatic hydroxycarboxylic acid.
10. Film according to claim 9 characterised in that the aliphatic hydroxycarboxylic acid is a PLA.
11. Film according to one of claims 1 to 10 characterised in that the base layer is transparent and contains 90 to <100% by weight of a polyhydroxycarboxylic acid, preferably PLA.
12. Film according to one of claims 1 to 10 characterised in that the base layer is opaque and additionally contains vacuole initiating filler.
13. Film according to claims 1 characterised in that the covering layer has a thickness of 0.5 to 6  $\mu\text{m}$ .
14. Film according to one of claims 1 to 13 characterised in that the covering layer is sealable.
15. Film according to one of claims 1 to 14 characterised in that the film has a gloss of 120 to 150 at an angle of  $20^\circ$ .
16. Film according to one of claims 1 to 15 characterised in that the film has a surface resistance of  $\leq 6 \cdot 10^{12} \text{ Ohm/m}^2$ , preferably 1 to  $\leq 4 \cdot 10^{12} \text{ Ohm/m}^2$ .
17. Film according to one of claims 1 to 16 characterised in that the film has a dynamic coefficient of friction of <0.30, in particular 0.05 to 0.25.

18. Multiple layer biaxially oriented opaque of white film of a base layer and at least one covering layer characterised in that the covering layer contains at least one polymer of at least one aliphatic hydroxycarboxylic acid and 1.5 to 10% by weight of a glycerine fatty acid ester and < 0 to 2% by weight of mica, based on the weight of the covering layer respectively.
19. Film according to claim 18 characterised in that the base layer contains  $\text{TiO}_2$ , preferably in a quantity of 1 to 15% by weight.
20. Film according to claim 18 characterised in that the base layer contains vacuole initiating fillers, preferably COC.
21. Film according to claim 18 characterised in that base layer contains vacuole initiating fillers, preferably COC, in a quantity of 3 to 15% by weight.
22. Film according to claim 18 characterised in that the base layer contains vacuole initiating fillers and  $\text{TiO}_2$ .
23. Use of a film according to one of claims 1 to 22 as packaging film.
24. Process for the production of a film according to one of claims 1 to 22 characterised in that the glycerine fatty acid ester and the antiblocking particles are incorporated into the covering layer via a concentrate.

25. Process according to claim 24 characterised in that the concentrate is based on a polyolefin, preferably polyethylene or polypropylene.
26. Multiple-layer biaxially oriented film of a base layer and at least one covering layer characterised in that the covering layer contains at least one polymer of at least one aliphatic hydroxycarboxylic acid and 1.5 to 10% by weight of a glycerine fatty acid ester and up to 0.3% by weight of wollastonite, based on the covering layer respectively.